

Prestigio

GEOVISION
PMP5870C_DUO

TECHNICAL
SERVICE MANUAL

Prestigio

Product specification

Model: PMP5870C_DUO



Features:

1. CPU: Rockchip RK3066, Cortex-A9 1.6GHz
2. Screen: 7" IPS, 1280×800 pixels
3. CTP: G+G
4. 1GB DDR3, 8 GB FLASH; optional: 16 GB FLASH
5. WIFI: IEEE 802.11b/g/n
6. 0.3M front camera, 2M rear camera, Optional 5M rear camera
7. 3D G-Sensor, USB OTG&USB HOST, HDMI 1.4
8. Battery: 4000mAh

Specification:

Hardware		
CPU		Rockchip RK3066: ARM Cortex-A9 1.5GHz +HD video codec + 3D graphic accelerator
Memory	Flash	8GB MLC, Optional 16GB MLC
	RAM	1GB DDR3
Display	Display	7" IPS
	Aspect Ratio	16:10
	Resolution	1280×800 pixels
Touch Panel		Capacitive touch panel(Support 5 points touch)
Key		Power, Volume+/-

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Connector		TF card slot, 3.5 earphone jack, Micro USB port, Micro HDMI port	
camera		0.3M front camera 2M rear camera	
Audio	Recording	Via microphone	
	Earphone	3.5mm earphone	
	Speakers	1W@8Ω	
USB		1 Micro USB ports: support OTG function and USB mouse or keyboard	
WIFI		Support IEEE 802.11b/g/n transport protocol	
G-Sensor		Support accelerometer game	
Video Decoding		2160P(3840*2160); 1080P: H.264, MPEG4/XVID, WMV/VC-1,MPEG2 MP, AVS, H.263 up to 50Mbps; VP8 up to30Mbps	
Audio Decoding		MP3, WMA, RA, OGG, WAV, APE, FLAC, AC3, DTS etc	
Video Container		MKV, MP4, AVI, RV/RMVB, VOB, WMV, FLV, 3GP etc	
Picture Format		jpg/bmp/png/gif	
HDMI		Support HDMI 1.4 protocol	
Battery		4000mAh	
System Update		Via TF card	
Logo Update		Via TF card	
Certification & Regulation		CE, FCC, and RoHS compliant	
Physical Characteristics	Dimension	191*116*9.0mm	
Environment Conditions	Temperature	Operation	0~50°C
		Storage	-10~60°C
	Humidity	Operation	0~90%, Non-Condensed
		Storage	0~90%, Non-Condensed
Software			
Operating System		Android 4.1	
Package Contents			
7"Unit * 1pcs			
Micro USB cable * 1pcs			
OTG cable*1pcs			
AC/DC adapter * 1pcs			

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User's manual * 1pcs
Gift box * 1pcs

项目编号	对象标识	对象描述	组件单	组件数量	优先级	项目文本行1
0010	TESTPTMR730010	TESTMR73_V1_01_1G-D_8G-F_WIFI_OTG_CO	EA	1.000	0	
0020	PTMR73IB1201	MR73_IB1_V2_01	EA	1.000	0	
0030	138M0193	LCM_7寸_800*1280_450cd/m2_无TP_31pin_CPT	EA	1.000	0	
0040	13800180	TP_CAP_7寸_G+G_博鹏发_5点触摸-BF6932A2	EA	1.000	0	
0050	13830036	CAMERA_200万像素双_66度_SP0718+SP2518	EA	1.000	0	
0060	13740091	LI_BAT_4000mAh_107*72*3.85mm_内置40mm-5P公插	EA	1.000	0	
0070	13630017	FPC_30PIN_间距0.5mm_长度86.3mm_同面-MR73-7023	EA	1.000	0	
0080	13630018	FPC_30PIN+31PIN_间距0.5mm_长28.5mm_同面-MR73	EA	1.000	0	
0090	13430063	SPK_8R_1W_30*10*4.1mm_单磁_60mm-网盖上贴双面胶	EA	1.000	0	
0100	135M0030	ANT_ASSY_MR71_WIFI外购成品天线_135mm_朗深	EA	1.000	0	
0110	13440020	MIC_Φ4.0*1.5mm_-42±3dB_30mm	EA	1.000	0	
0120	151M0330	面壳组件_MR73-7023(密封圈+喇叭网+面壳)	EA	1.000	0	
0130	16050108	底盖_MR73-7023_氧化喷砂_蓝黑色_AL+0.1mm	EA	1.000	0	
0140	157M0029	按键组件_MR73-7023_功能按键组_软胶+硬胶_PC+TPU	EA	1.000	0	
0150	15000086	镜片_摄像头镜片_MR71-7021_PMMA_透明	EA	1.000	0	
0160	16000241	螺丝_自攻_CB1.7*3.5mm_碳钢加硬_黑色_十字槽_头直3.2mm	EA	6.000	0	
0170	16000243	螺丝_自攻_CB1.7*2.5mm_碳钢加硬_黑色_十字槽_头径6mm	EA	3.000	0	
0180	18020108	黄色高温胶纸_90*70mm	EA	1.000	0	
0190	18020048	高温绝缘胶纸_20*20mm	EA	2.000	0	
0200	18020047	高温绝缘胶纸_40*20mm	EA	1.000	0	
0210	18020030	3M双面胶_40*25mm	EA	1.000	0	
0220	13700076	CHARG_5V/2A_USB母座_不带线_无插头	EA	1.000	0	
0230	13750008	PWRJ_5V/2A_196-2054000R_欧规	EA	1.000	0	
0240	13750009	PWRJ_5V/2A_196-1054000R_美规	EA	1.000	0	
0250	13750010	PWRJ_5V/2A_196-5054000R_英规	EA	1.000	0	
0260	13680090	CAB_OTH_MICOR-5P_USB延长线_长度700mm_带磁环-鑫海	EA	1.000	0	
0270	18090051	导热硅胶_15*15*0.5mm	EA	2.000	0	
0300	18010085	EMI辅料_导电布_84*70mm	EA	1.000	0	
	TESTPTMR730010	TESTMR73_V1_01_1G-D_8G-F_WIFI_OTG_CO		0.000	0	
0010	10100004	RES_NORM_0R_±5%_0402	EA	15.000	0	W_L1 R17 R79 R40 R111 R144 R172 R212 R26
0020	10100040	RES_NORM_10R_±5%_0402	EA	1.000	0	R213
0030	10100083	RES_NORM_22R_±5%_0402	EA	8.000	0	R58 R125 R126 R180 R182 R222 R239 R242
0040	10100330	RES_NORM_43.2R_±1%_0402	EA	6.000	0	R48 R50 R103 R105 R205 R207
0050	10100187	RES_NORM_100R_±5%_0402	EA	6.000	0	R34 R38 R132 R135 R165 R252
0060	10100297	RES_NORM_240R_±1%_0402	EA	5.000	0	R62 R63 R64 R65 R66
0070	10100336	RES_NORM_470R_±1%_0402	EA	1.000	0	R157
0080	10100006	RES_NORM_1K_±1%_0402	EA	4.000	0	R68 R69 R70 R71
0090	10100010	RES_NORM_1K_±5%_0402	EA	14.000	0	R18 R39 R43 R80 R115 R128 R131 R142 R148
0100	10100065	RES_NORM_1.5K_±5%_0402	EA	1.000	0	R249
0110	10100021	RES_NORM_2K_±5%_0402	EA	4.000	0	R152 R154 R215 R217

0120	10100092	RES_NORM_2.2K_±1%_0402	EA	1.000	0	R29
0130	10100131	RES_NORM_4.7K_±5%_0402	EA	24.000	0	R72 R83 R88 R89 R90 R91 R116 R151 R153 R
0140	10100331	RES_NORM_4.99K_±1%_0402	EA	1.000	0	R35
0150	10100267	RES_NORM0267_6.04K_±1%_0402	EA	1.000	0	R171
0160	10100332	RES_NORM_6.2K_±1%_0402	EA	1.000	0	R166
0170	10100333	RES_NORM_7.5K_±1%_0402	EA	1.000	0	R168
0180	10100035	RES_NORM_10K_±5%_0402	EA	15.000	0	R53 R54 R57 R92 R129 R136 R158 R160 R177
0190	10100334	RES_NORM_14.7K_±1%_0402	EA	1.000	0	R46
0200	10100049	RES_NORM_15K_±5%_0402	EA	1.000	0	R56
0210	10100356	RES_NORM_18K_±1%_0402	EA	1.000	0	R22
0220	10100073	RES_NORM_20K_±1%_0402	EA	1.000	0	R37
0230	10100077	RES_NORM_22K_±1%_0402	EA	2.000	0	R183 R224
0240	10100219	RES_NORM0219_29.4K_±1%_0402	EA	1.000	0	R30
0250	10100123	RES_NORM_47K_±5%_0402	EA	13.000	0	R106 R113 R161 R173 R175 R176 R195 R52 R
0260	10100155	RES_NORM_68K_±1%_0402	EA	1.000	0	R210
0270	10100179	RES_NORM_100K_±1%_0402	EA	4.000	0	R42 R260 R146 R147
0280	10100192	RES_NORM0192_120K_±1%_0402	EA	1.000	0	R167
0290	10100197	RES_NORM0197_130K_±1%_0402	EA	2.000	0	R191 R197
0300	10100335	RES_NORM_196K_±1%_0402	EA	2.000	0	R169 R285
0310	10100226	RES_NORM0226_300K_±5%_0402	EA	1.000	0	R27
0320	10100013	RES_NORM_1M_±5%_0402	EA	1.000	0	R59
0330	10100041	RES_NORM_10R_±5%_0603	EA	1.000	0	R225
0340	10110013	RES_ARR_47R_±5%_8P4R-0402	EA	3.000	0	RA10 RA9 RA5
0350	10110015	RES_ARR_56R_±5%_8P4R-0402	EA	6.000	0	RA1 RA2 RA3 RA4 RA6 RA7
0360	10130001	RES_VAR0001_12V_3.5PF_0402	EA	10.000	2	R104 R107 R114 R119 R179 R208 R219 R233
0360	10130005	RES_VAR_70V_3pF_0402_SDV1005S140C030YPTF	EA	10.000	1	R104 R107 R114 R119 R179 R208 R219 R233
0370	10009037	CAP_CER_3.3pF_50V_0402	EA	1.000	0	C74
0380	10009049	CAP_CER_8.2pF_50V_0402	EA	2.000	0	C75 C257
0390	10009004	CAP_CER_10pF_50V_0402	EA	1.000	0	C341
0410	10000060	CAP_CER_22pF_50V_0402	EA	3.000	0	C306 C57 C58
0420	10000063	CAP_CER_100pF_50V_0402	EA	1.000	0	C190
0430	10000005	CAP_CER_1nF_50V_0402	EA	8.000	0	C61 C237 C241 C273 C289 C291 C134 C147
0440	10000006	CAP_CER_10nF_50V_0402	EA	12.000	2	C299 C316 C73 C81 C87 C95 C102 C103 C105
0440	10000045	CAP_CER_10nF_25V_0402	EA	12.000	1	C299 C316 C73 C81 C87 C95 C102 C103 C105
0450	10000019	CAP_CER_47nF_10V_0402	EA	3.000	0	C225 C226 C115
0460	10000008	CAP_CER_100nF_16V_0402	EA	99.000	0	C32 C62 C67 C68 C69 C70 C185 C201 C202 C
0470	10000031	CAP_CER_220nF_10V_0402	EA	3.000	0	R123 R133 C16
0480	10000028	CAP_CER_1uF_6.3V_0402	EA	41.000	1	C17 C72 C79 C83 C84 C98 C113 C193 C228 C
0480	10009102	CAP_CER_1uF_6.3V_0402	EA	41.000	2	C17 C72 C79 C83 C84 C98 C113 C193 C228 C
0490	10000037	CAP_CER_4.7uF_6.3V_0603	EA	22.000	1	C50 C158 C196 C213 C305 C332 C336 C36 C2
0490	10009109	CAP_CER_4.7uF_6.3V_0603	EA	22.000	2	C50 C158 C196 C213 C305 C332 C336 C36 C2

0500	10009087	CAP_CER_10uF_6.3V_0603	EA	10.000	0	C34 C35 C48 C53 C234 C282 C322 C145 C216
0510	10000039	CAP_CER_22uF_6.3V_0805	EA	11.000	1	C33 C117 C155 C156 C227 C215 C326 C30 C1
0510	10009107	CAP_CER_22uF_6.3V_0805高1.25mm	EA	11.000	2	C33 C117 C155 C156 C227 C215 C326 C30 C1
0520	10020023	CAP_TAN_47uF_6.3V_A型	EA	3.000	0	C212 C280 C54
0530	11300001	CRYS0001_32.768KHZ_20PPM_12.5pF	EA	1.000	0	Y3
0540	11300019	CRYS_24MHZ_10PPM_9pF/10pF	EA	1.000	1	Y2
0540	11300040	CRYS_24MHZ_10PPM_9.5pF	EA	1.000	2	Y2
0550	11110002	DIO_SB0002_BAT54C	EA	1.000	0	D4
0560	11110026	DIO_SW_40V_2A_SOD-123FL_DSS24	EA	1.000	0	D13
0580	11120002	DIO_SW_30V_200mA_SOD-523_LRB520S-30T1G	EA	2.000	0	D3 D6
0590	11150035	DIO_TVS_TVU1240R1A_2.5*1.0*0.5mm	EA	2.000	2	U21 U22
0590	11150040	DIO_TVS_ESDA6V8UD-10/TR_DFN10	EA	2.000	1	U21 U22
0600	11150009	DIO_TVS_6.2V_±15KV/10KV_1.2pF	EA	2.000	0	D1 D2
0610	11020001	TRI_NMOS0001_2N7002_SOT-23-3	EA	3.000	0	Q14 Q15 Q16
0620	11030008	TRI_PMOS_MI2305_SOT-23	EA	3.000	1	Q22 Q23 Q25
0620	11030015	TRI_PMOS_±12V_-4.2A_SOT-23-3	EA	3.000	2	Q22 Q23 Q25
0630	11020008	TRI_NMOS_±8V_2.9A_SOT-23	EA	1.000	0	Q18
0640	11000003	TRI_NPN0003_MMBT3904	EA	4.000	1	Q7 Q10 Q26 Q4
0640	11000007	TRI_NPN0007_S9014	EA	4.000	2	Q7 Q10 Q26 Q4
0650	10230015	IND_BEAD_600Ω_300mA_0.7Ω	EA	3.000	0	FB6 FB11 R187
0660	10230008	IND_BEAD_120Ω_1A_0.1Ω	EA	3.000	0	FB12 FB13 FB15
0670	10220012	IND_PWR_2.2uH_2.1A_59mΩ	EA	2.000	2	PL4 PL5
0670	10220028	IND_PWR_2.2uH_1.1A_110mΩ	EA	2.000	3	PL4 PL5
0670	10220029	IND_PWR_2.2uH_1.1A_87mΩ	EA	2.000	1	PL4 PL5
0680	10220083	IND_PWR_2.2uH_2.3A_4*4*1.5mm	EA	4.000	0	PL3 PL6 PL7 PL1
0690	12300026	CPU_1.5GHZ_RK3066_BGA-453	EA	1.000	0	U1
0700	12400015	IC_PMU_TPS659102A1RSLR_VQFN-48	EA	1.000	0	U11
0710	12430056	IC_DC-DC_SY8009BABC_SOT23-6	EA	1.000	0	U12
0720	12430053	IC_DC-DC_XR1151_SOT23-6	EA	1.000	0	U27
0730	12420003	IC_LDO_VA7318XFR-A	EA	1.000	2	U31
0730	12420026	IC_LDO_BL9193-33BAPRN	EA	1.000	1	U31
0730	12420035	IC_LDO0035_RT9193-33GB	EA	1.000	3	U31
0740	12550018	IC_LOGIC0018_SN75LVDS83DGGR	EA	1.000	3	U18
0740	12550061	IC_LOGIC_信号发送_DS90C385AMT/NOPB_TSSOP-56	EA	1.000	2	U18
0740	12550062	IC_LOGIC_LVDS信号发送_THC63LVDM83D_TSSOP-56	EA	1.000	1	U18
0750	12540041	IC_AV_音频解法器_ES8328_QFN-28	EA	1.000	0	U23
0760	12520034	IC_AMP_Mono Class-D Audio_MD4103D_DFN-8	EA	1.000	0	U30
0770	12490014	IC_OTH_LPW5208LB5F_SOT23-5	EA	1.000	1	U26
0770	12550040	IC_OTH_AP2151WG	EA	1.000	2	U26
0780	13200064	CON_FPC_6P_间距0.5mm_翻盖下接触_卧式_高1.5mm	EA	1.000	0	T_CON2
0790	13180069	JAC_OTH_电池座_A1254-5P正向插头线	EA	1.000	0	CON8

0800	13200088	CON_FPC_30PIN_间距0.5mm_下接触_翻盖_卧式_高1.5mm	EA	2.000	0	CON804 CON803
0810	13300015	SWH_TACT0015_SKRTLAE010	EA	3.000	2	SW1 SW2 SW3
0810	13300039	SWH_TACT_LS-1135	EA	3.000	1	SW1 SW2 SW3
0820	13200078	CON_FPC_24PIN_间距0.5mm_翻盖下接触_卧式_高1.5mm	EA	1.000	0	J901
0830	13120023	JAC_USB_MIRCO_B型_5pin_插件牛角型	EA	1.000	0	CON101
0840	13140004	JAC_HDMI_D型_LK-A151902-B-15-R	EA	1.000	0	H_CON1
0850	13000470	PCB_NORM_MR73_V1_6层_3拼板_OSP	EA	1.000	0	
0860	196M0012	通讯模块_WIFI模块_RL-UM02BS	EA	1.000	2	M1
0860	196M0013	通讯模块_WIFI模块_RL-UM12BS V1.0 (RTL8188EUS)	EA	1.000	1	M1
0870	12410012	IC_CHA_MP2617GL_QFN-20	EA	1.000	0	U14
0880	12080005	DDR3_256MB_H5TQ2G83CFR-H9C_FBGA-78	EA	4.000	2	U2 U3 U4 U5
0880	12080012	DDR3_256MB_EDJ2108BDBG-DJ-F_FBGA-78	EA	4.000	1	U2 U3 U4 U5
0890	12040048	MLC_8GB_H27UCG8T2MYR-BC_LGA-52-镀金	EA	1.000	2	U35
0890	12140002	MLC_8GB_H27UCG8T2MYR-BC_LGA-52镀锡-已上治具处理	EA	1.000	1	U35
0900	12580034	IC_OTH0034_MMA8452QR1	EA	1.000	0	U33
1000	16040445	屏蔽盖_CPU_MR71_69.93*49.1*1.8*0.3mm马口铁长讯吸塑	EA	1.000	0	
	PTMR73IB1201	MR73_IB1_V2_01		0.000	0	
0010	13130002	JAC_CAD_TF	EA	1.000	2	CON4
0010	13130006	JAC_CAD_TF	EA	1.000	1	CON4
0020	13110029	JAC_EAR_内孔直径3.5mm_嵌板_PJ-3146E	EA	1.000	0	CON6
0030	10000028	CAP_CER_1uF_6.3V_0402	EA	1.000	1	C3
0030	10009102	CAP_CER_1uF_6.3V_0402	EA	1.000	2	C3
0040	10000037	CAP_CER_4.7uF_6.3V_0603	EA	1.000	1	C6
0040	10009109	CAP_CER_4.7uF_6.3V_0603	EA	1.000	2	C6
0050	10110008	RES_ARR_22R_±5%_8P4R-0402	EA	1.000	0	RA1
0060	10130001	RES_VAR0001_12V_3.5PF_0402	EA	2.000	2	R3 R4
0060	10130005	RES_VAR_70V_3pF_0402_SDV1005S140C030YPTF	EA	2.000	1	R3 R4
0070	13000457	PCB_NORM_MR71_IB1_V2_4层_10拼板_沉金	EA	1.000	0	
	12140002	MLC_8GB_H27UCG8T2MYR-BC_LGA-52镀锡-已上治具处理		0.000	0	
0010	12040062	MLC_8GB_H27UCG8T2MYR-BC_LGA-52-镀锡	EA	1.000	0	
0020	33000013	SW_License_MID_FLASH内容擦除软件	EA	1.000	0	

Maintenance Manual for Tablet MR73(MR73_V1)

This manual describes common failures and troubleshooting from the angle of circuit principles. It is for your information. This manual introduces in general positions for circuit investigation. Please refer to maintenance schematic diagram for circuit details.

I. Booting Failure

The phenomena of booting failure include no display of LCD (and no backlight), no speaker sounds, no response of touch screen when touching, no response of power-on/power-off key stroke and no response of reset. Reasons for these vary. Following the trouble shooting steps below for failures of different kinds.

1. Abnormal System Power Supply:

Firstly perform tests of short circuit to earth on the power test points on the board to eliminate cause of short circuit to earth. Connect the board to DC power or battery, power on the device and investigate the problem as stated in the table below.

Table 1 System Power Supply

Power Test Point	Normal Voltage Range	Reasons for Failures (Investigation Range)
DC 5V	5+/-0.5V	Plug with DC power, this point shall have 5+/-0.5V.
VSYS	3.5V-4.5V	This point is system main power, if abnormality, check if PMU well welded or if short circuit to earth..
VDD_LOG	1.2V+/-0.2V	This is CPU core power supply,if abnormality, check if PMU well welded or if short circuit to earth.
VDD_ARM	1.2V+/-0.2V	This is CPU core power supply, if abnormality, check if PMU well welded or if short circuit to earth.
VCC_DDR	1.56V+/-0.1V	This is power supply of CPU and memory, if abnormality, check circuit of PMU part.
VCC_IO	3.0V +/-0.1V	This is IO power supply, check circuit of PMU part.

Since RK platform apply PMU, power supply abnormality is usually caused by poor welding of PMU and related peripheral components

2. Poor Welding or Abnormity of CPU, Memory and Flash:

After the above investigation, the system power supply should be normalized. The following circuits need to be checked.

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- a. Check if the CPU and peripheral components are well welded.
- b. Check if Y2 crystal oscillates.
- c. Check if RAM, Flash and peripheral components are well welded, if Flash card data lost or if reprogram Flash.

3. No Display of LCD:

Confirm the current is normal the equipment is started. If LCD has no display when connected, do investigation by following the steps below.

- a. Firstly check if voltage of VCC_LCD (3.2V+/-0.1V) is normal
- b. Connect the LCD to insure the full connected with FPC, then check backlight driving circuit.(this part of electrocircuit were on the back of LCD)
- c. If the system cannot be started after confirming that relevant components of the CPU, memory and Flash are well welded, please consider replacing Flash, CPU and memory.

II. Functional Fault Checking

1. Failure of Charging and Power Detection

Abnormal charging: For charging failure when DC is applied, check whether the welding of U14 charging IC peripheral components are good, whether the battery is damaged, whether the surrounding circuit is normal.

Abnormal DC insertion check (software shows battery power supply when DC power is inserted): Confirm first DC 5V has a voltage of around 5V, and then check if U14 is well welded.

The equipment does not work with battery power supply (but work with external power supply): Without external power supply, check if the voltage of VSYS is normal and if the circuit of PMU part is normal.

2. Abnormal Operation of USB and USB Peripheral

Detection failure of USB insertion: While connecting MID with PC via USB cable, USB insertion cannot be detected. Check mainly the circuits of Q7, USB cable, whether USB connector and MID connector are matched well.

OTG dysfunction: After plug the OTG cable, confirm if VCC-OTG has a voltage of around 5V when OTG cable inserted. Confirm if OTG-ID voltage is at a low level. If the voltage is lower than 5V, check if U26, U27 well welded.

3. Abnormal LCD Operation

Abnormal LCD backlight: Check if the circuit of FPC on the back of LCD in normal operation.

Nonadjustable LCD backlight brightness: Check if the circuit of Part D6 is normal.

Abnormal LCD color display: Check if LCD extension cords are well welded, if circuits of U18 and surrounding parts are normal.

Touch screen abnormality:

Check if display base is well welded. Check if the connection of LCD extension cords and the CPU is normal. Check if the CPU is welded without tin.

Replace the LCD screen.

4. Abnormal Operation of TF card**Detection failure of card insertion:**

Check if the card connector is damaged, the card platelet are well connected with FPC on mainboard.

Check if power supply of VDD_SD is normal as 3.0V+/-0.1V, if abnormal, please check Q22 circuit.

Check if TF card peripheral components are well welded or if damaged.

5. Abnormal sounds**No sounds of earphone and speaker:**

Check U23,U30 related components.

Check if the earphone extension cord is damaged.

Earphone with sounds and speaker no sounds:

Check U30 part of circuit

Abnormal sounds of earphone and speaker:

Check U17 related components.

6. WIFI abnormality:**WIFI can not scan:**

Turn on WIFI, then check if the voltage of VCCIO-WL is normal as 3.3V+/-0.1V, if not, please check U31 circuit.

Check if welding of WIFI module is good.

Can not detect signal:

Check if antenna plate and feeder are well welded.

7. Camera Abnormity

Run the camera application and then check if related current is normal, if voltage of VCC28-CIF is 2.8V around. Check if voltage of VCC18-CIF is 1.8V around.

Check if exclusion and camera extension cords are well welded.

8. G-sensor Failure

Check if G-sensor IC is well welded.;

9. Button Failure

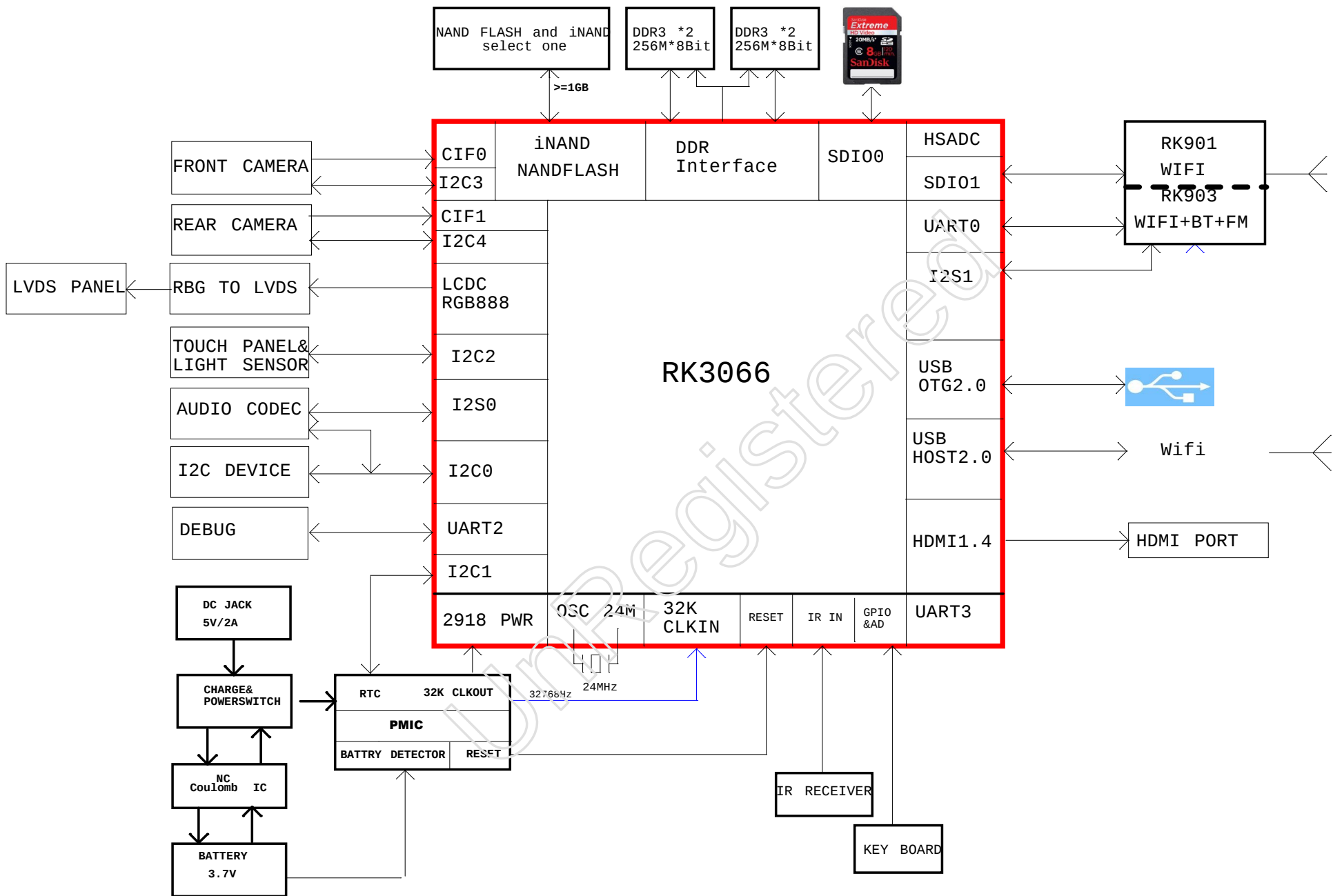
Check if circuit of the button part is normal. Check if each voltage is normal when buttons pressed down.

10. Other Failures

A. Large operation current of the system: Check if the main board has heating components. Test if the power test points of relevant heating components are short circuited to earth or with small resistance to earth. If yes, replace relevant components.

B. Booting Failure:

Firstly check if PMU related power is normal, if yes, then rewrite img file since the problem is maybe caused by img file loss. If the device can not boot after rewriting, probably there is something wrong with the memory.



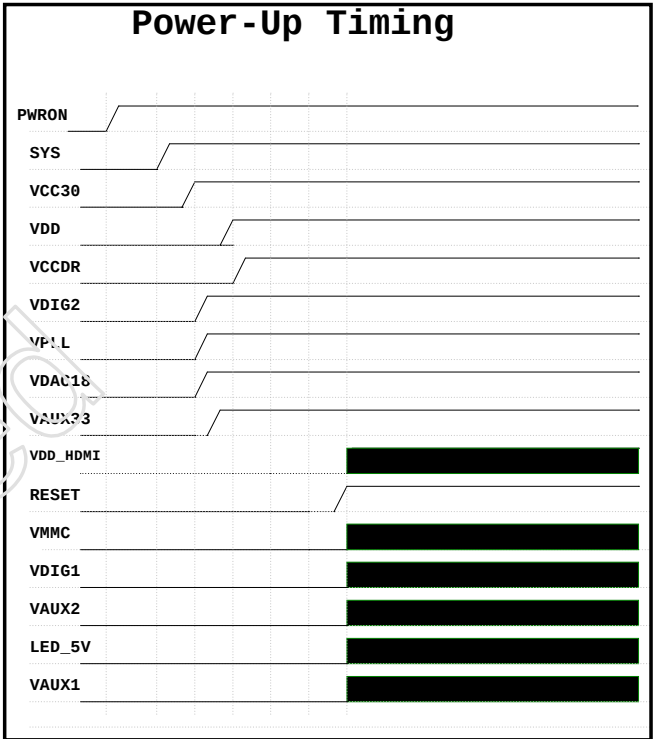
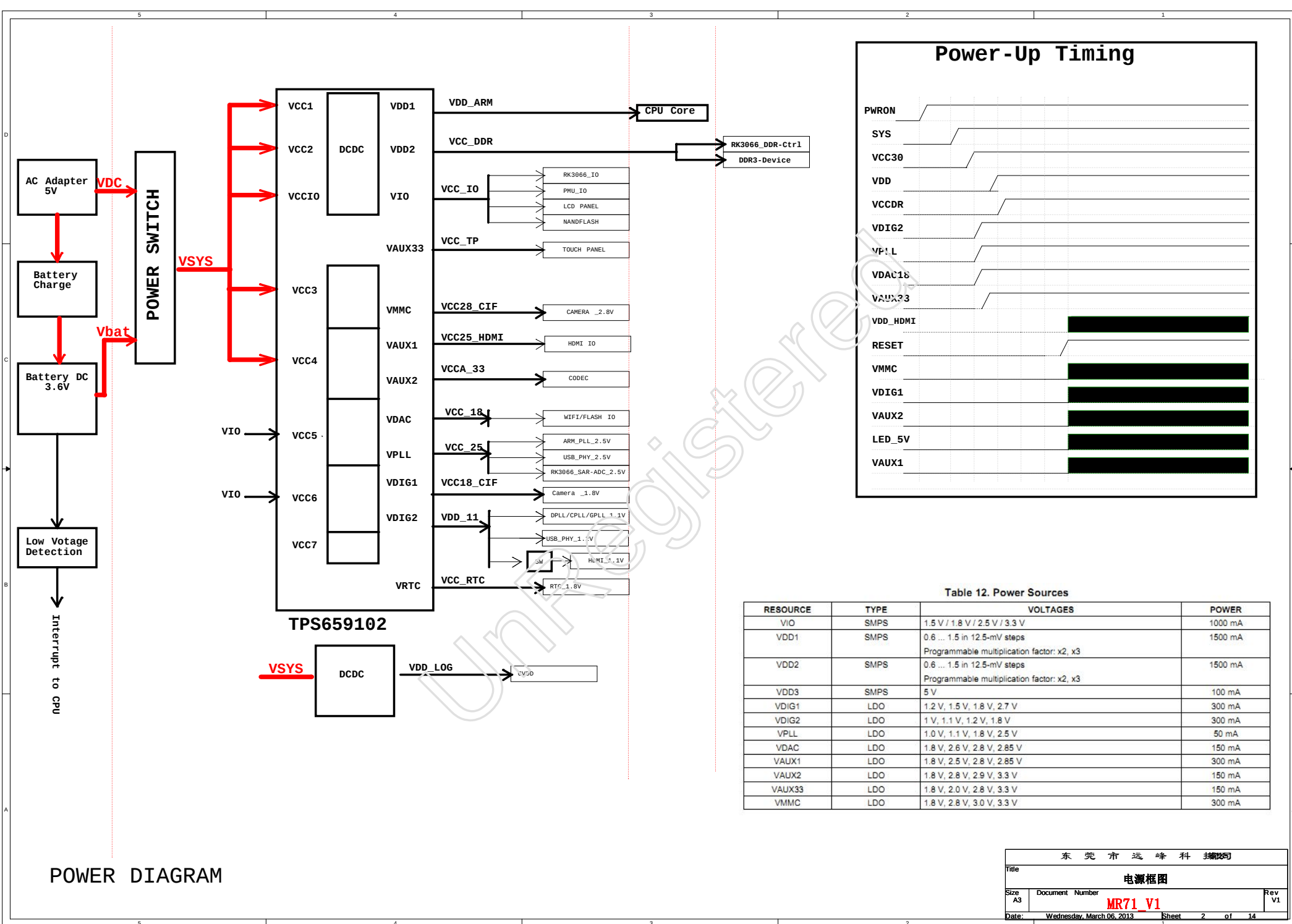
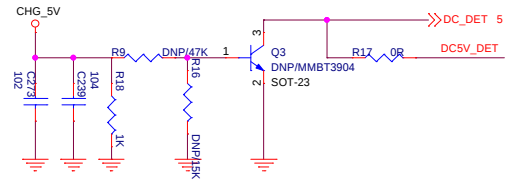


Table 12. Power Sources

RESOURCE	TYPE	VOLTAGES	POWER
VIO	SMPS	1.5 V / 1.8 V / 2.5 V / 3.3 V	1000 mA
VDD1	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD2	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD3	SMPS	5 V	100 mA
VDIG1	LDO	1.2 V, 1.5 V, 1.8 V, 2.7 V	300 mA
VDIG2	LDO	1 V, 1.1 V, 1.2 V, 1.8 V	300 mA
VPLL	LDO	1.0 V, 1.1 V, 1.8 V, 2.5 V	50 mA
VDAC	LDO	1.8 V, 2.6 V, 2.8 V, 2.85 V	150 mA
VAUX1	LDO	1.8 V, 2.5 V, 2.8 V, 2.85 V	300 mA
VAUX2	LDO	1.8 V, 2.8 V, 2.9 V, 3.3 V	150 mA
VAUX33	LDO	1.8 V, 2.0 V, 2.8 V, 3.3 V	150 mA
VMMC	LDO	1.8 V, 2.8 V, 3.0 V, 3.3 V	300 mA

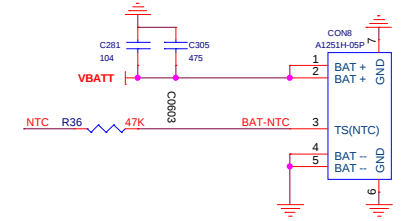
POWER DIAGRAM

DC_DET



4,5,6,7,8,9,10,11,12,13,14 GND

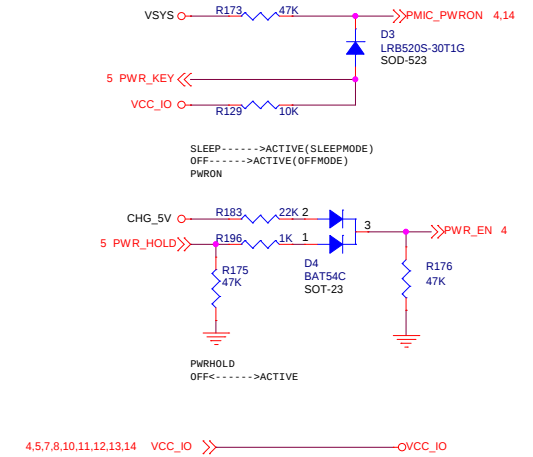
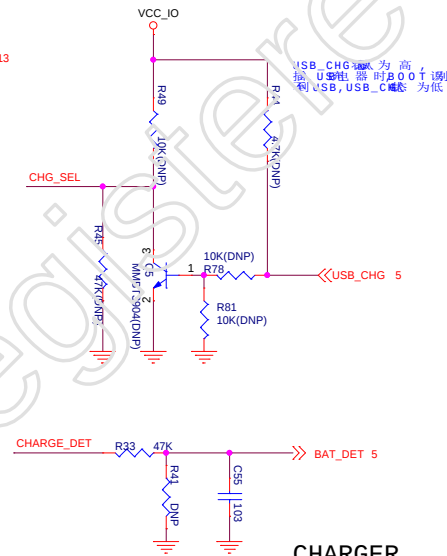
BATTER



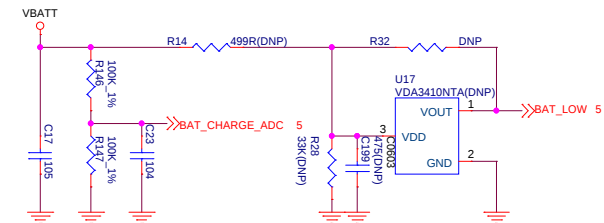
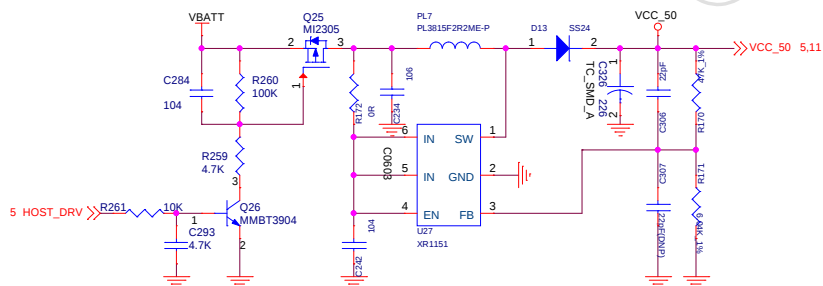
$ISET = 1.15 * 2000 / R29 (mA)$ $ISET = 1.5A$
 $ILIM = 1.15 * 40000 / R30 (mA)$ $ILIM = 2A$

恒流/压模式:
最大电流 = $2000 * VISET / RISE T (mA)$

CHARGER

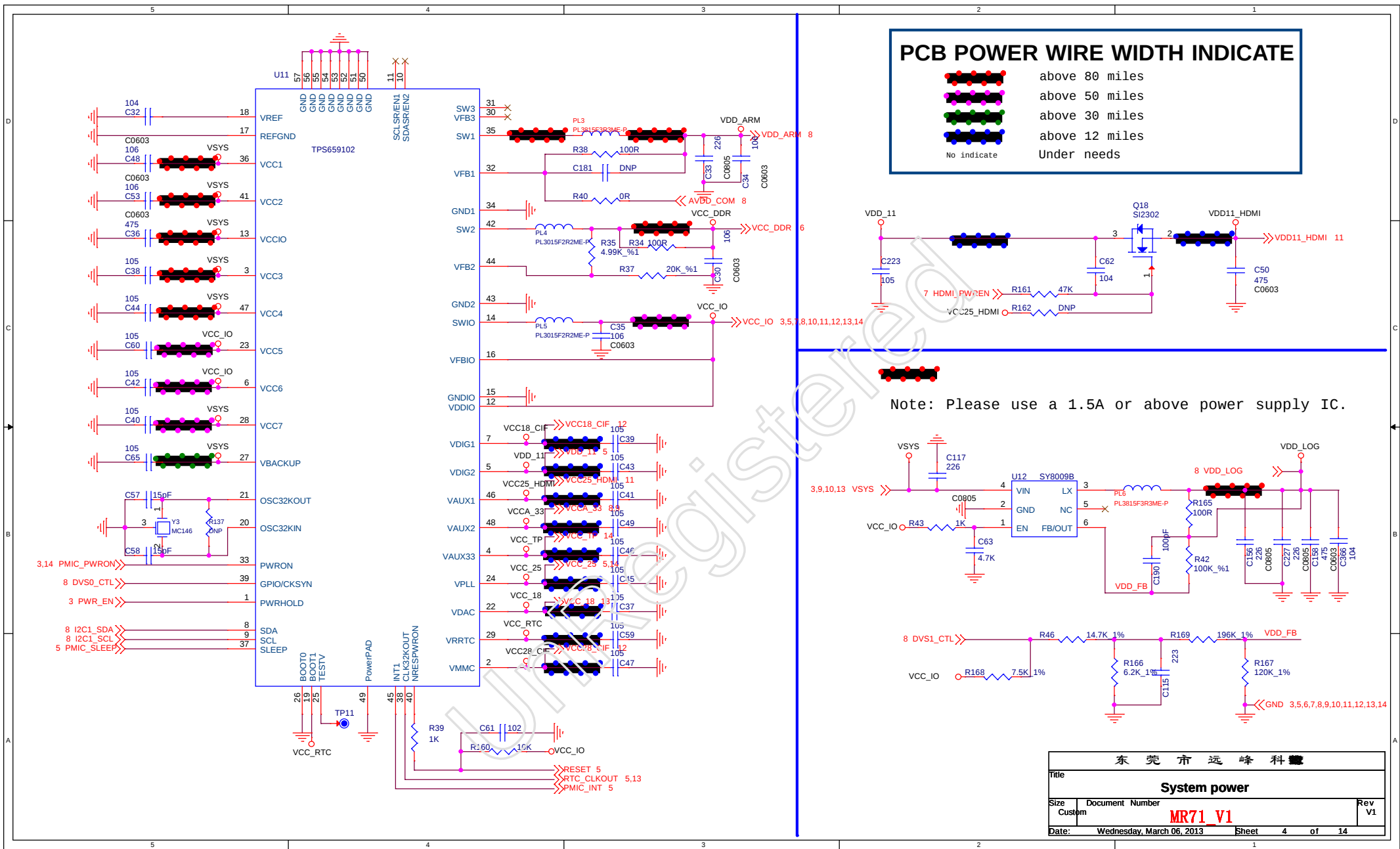


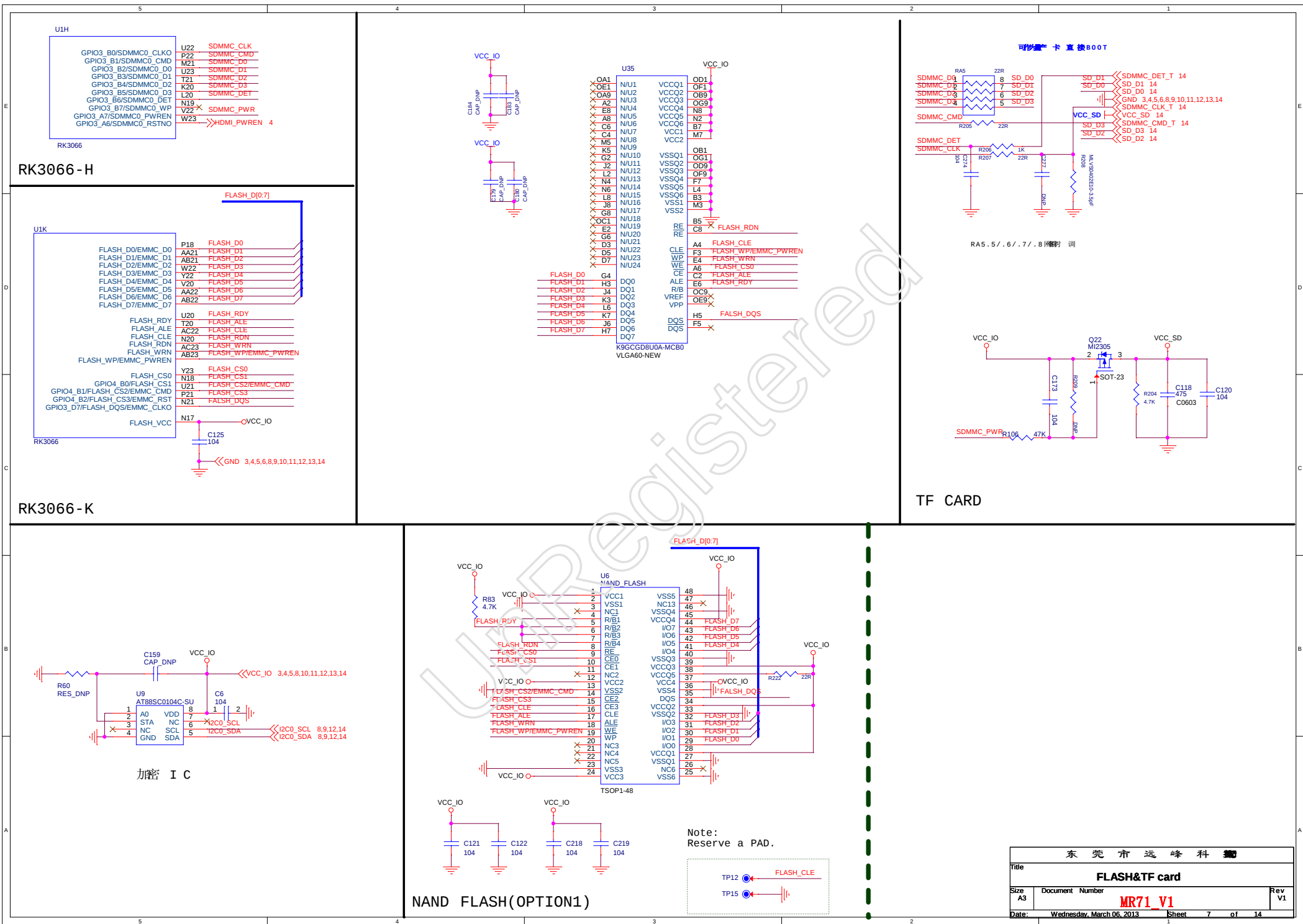
BOOST FOR OTG/HDMI

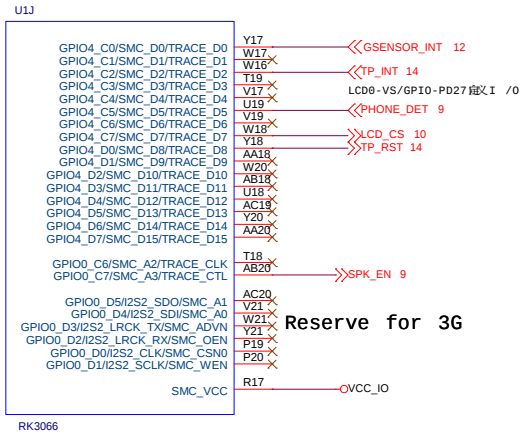


Charge&BOOST

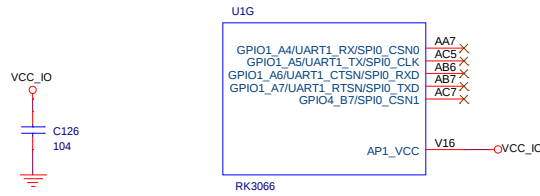
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东莞市远峰科技有限公司			
Size	Document Number	Rev	
A3	MR71_V1	V1	
Date:	Tuesday, March 12, 2013	Sheet	3 of 14



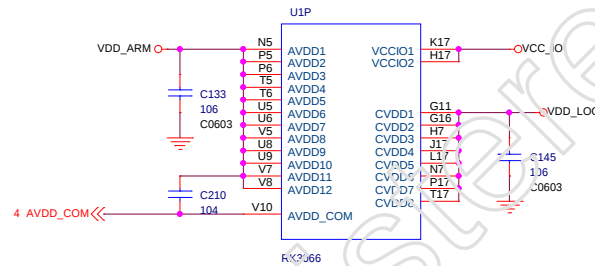




RK3066-J

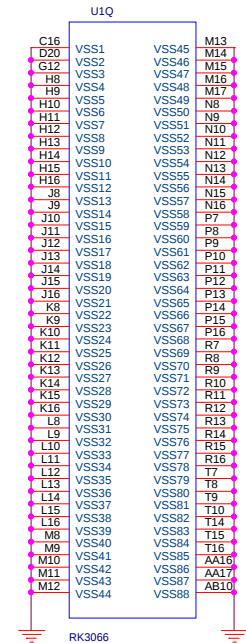


RK3066-G

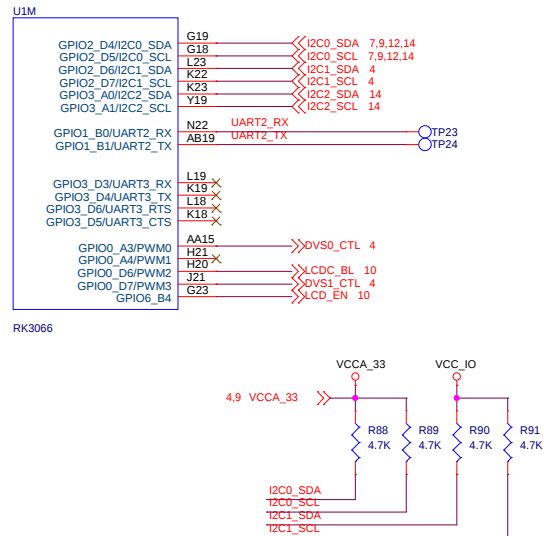


Note:
Place these filter capacitors under CPU.

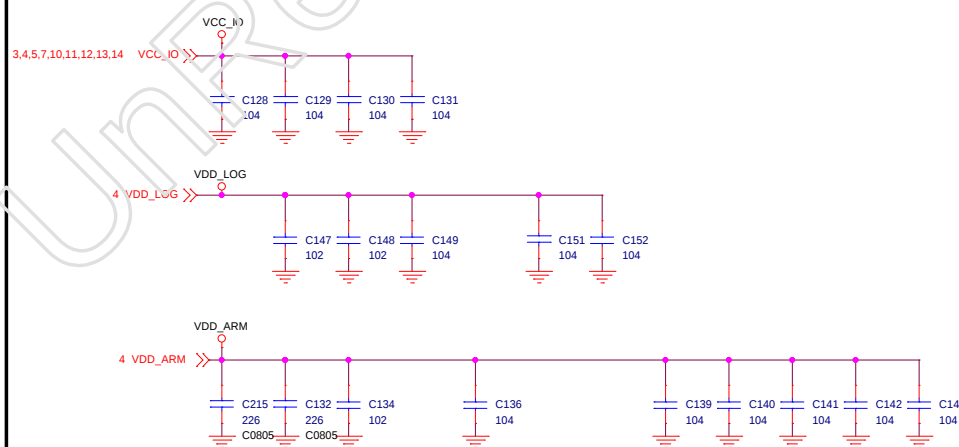
RK3066-P



RK3066-Q

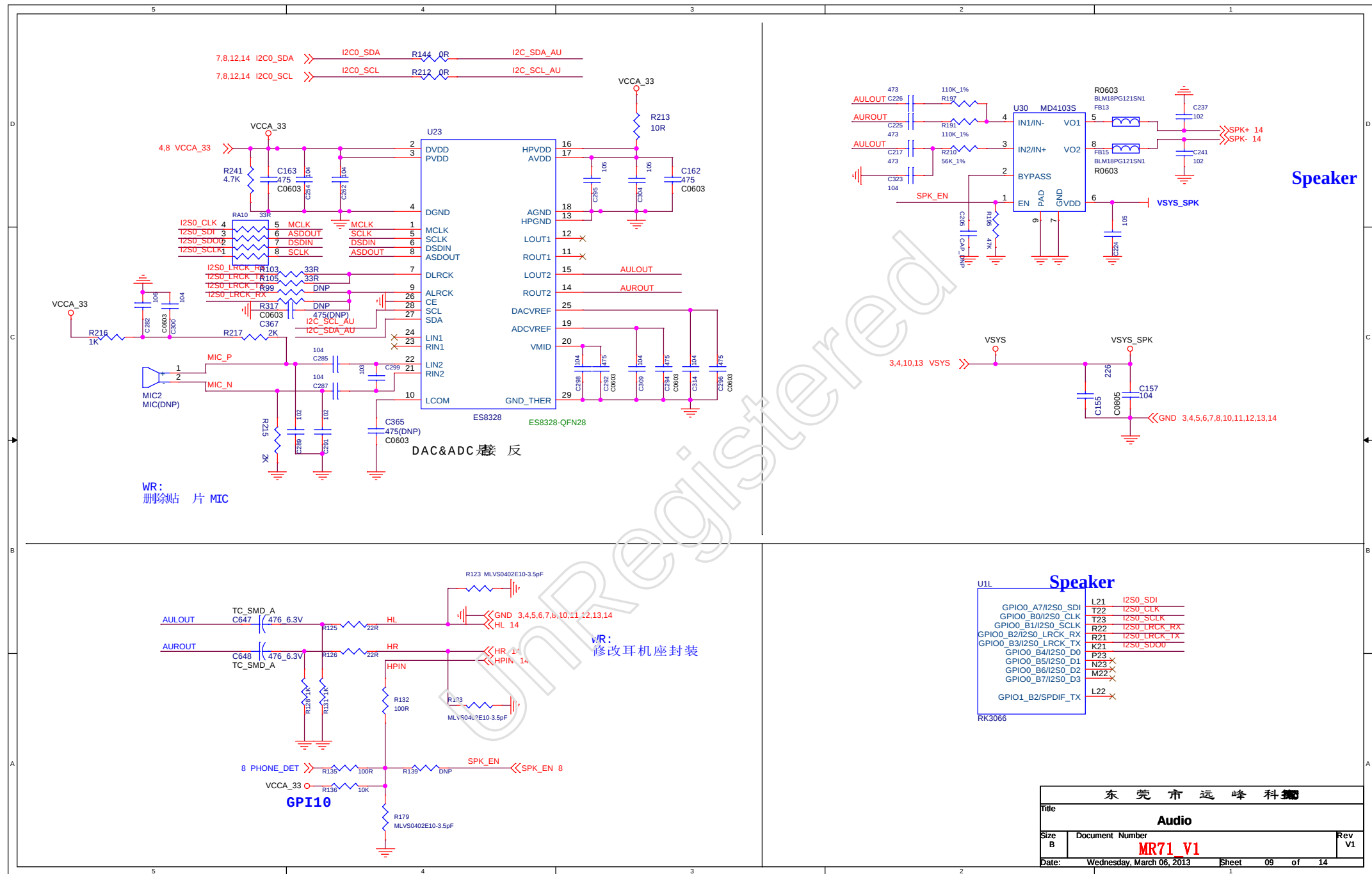


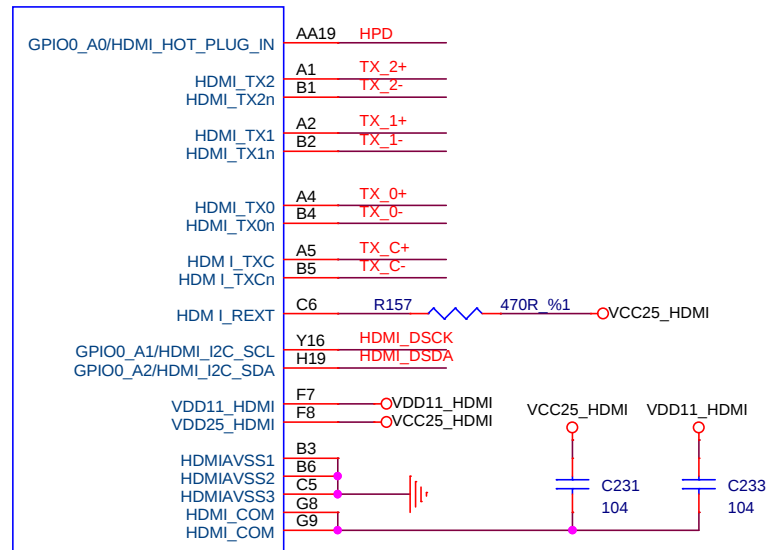
RK3066-M



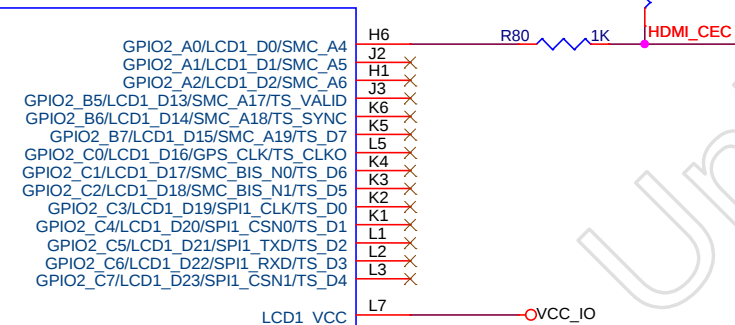
RK3066 CORE POWER FILTER

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Title		GPIO	
Size	Document Number	Rev	
A3	MR71_V1	V1	
Date:	Wednesday, March 06, 2013	Sheet	8 of 14

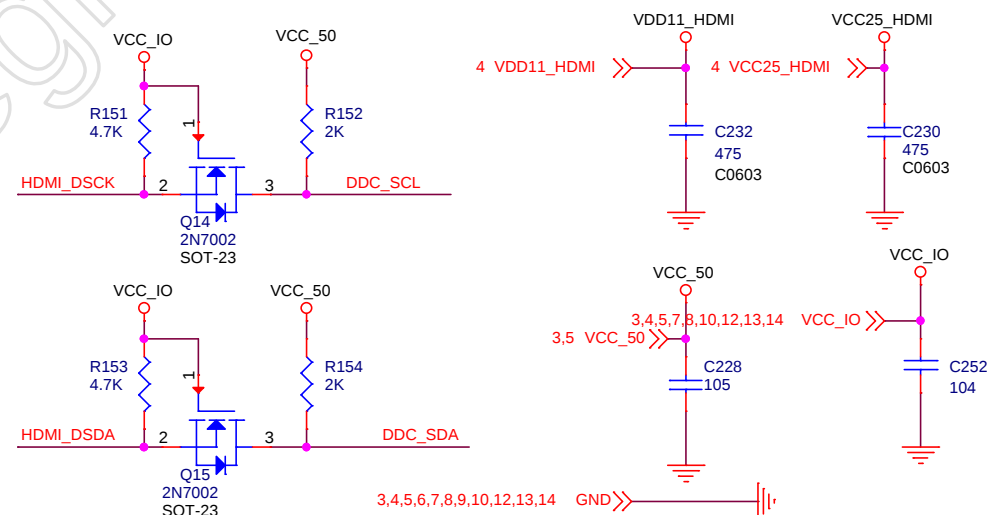
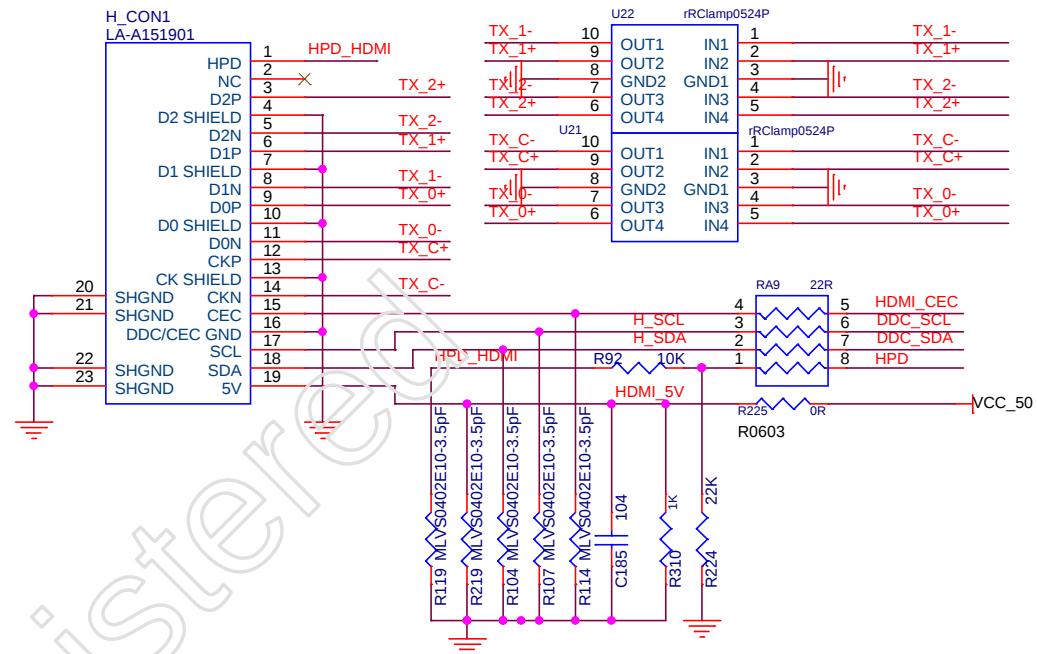




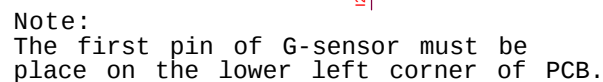
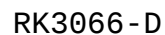
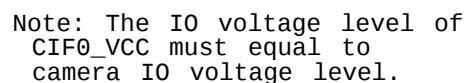
U1B



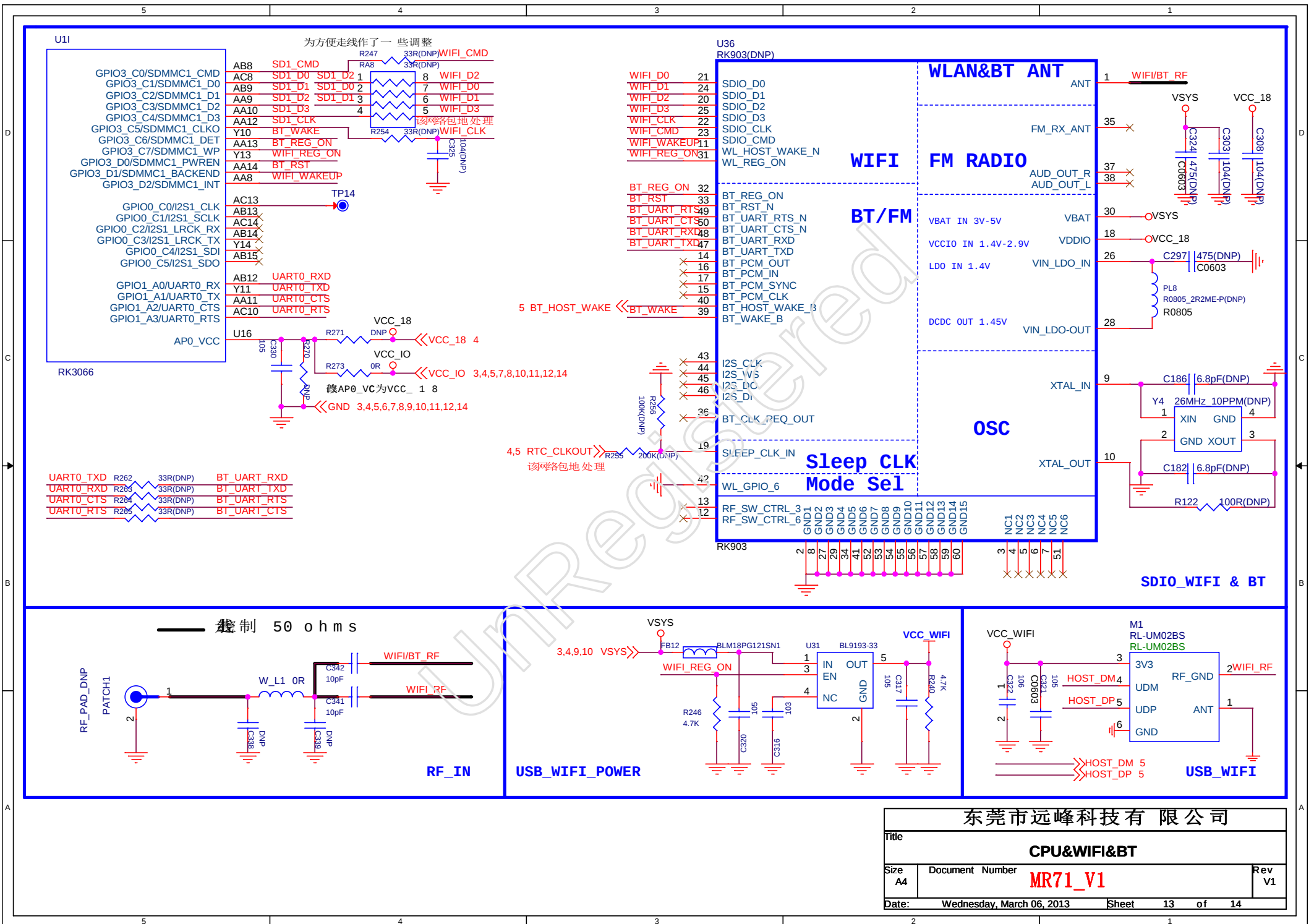
RK3066



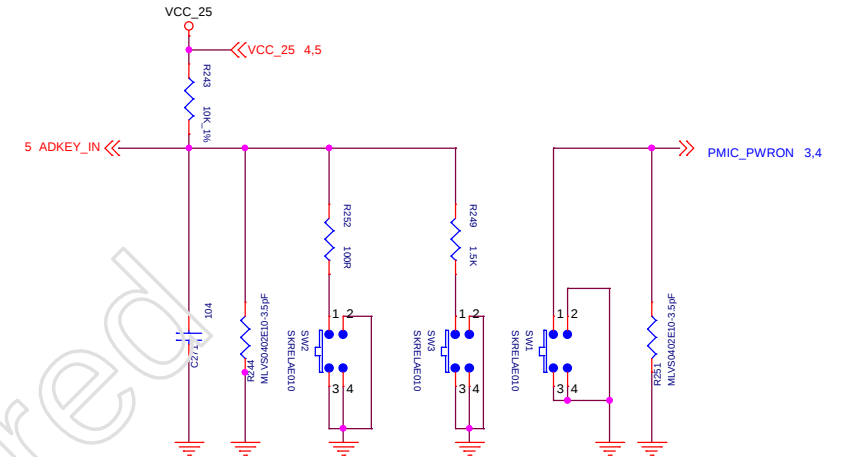
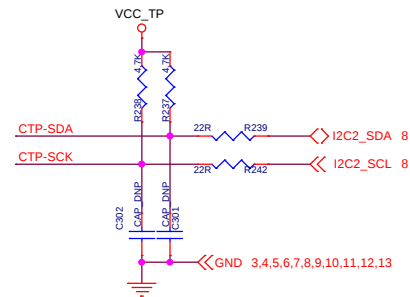
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Title			
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Size A4	Document Number MR71_V1		Rev V1
Date:	Wednesday, March 06, 2013	Sheet	11 of 14



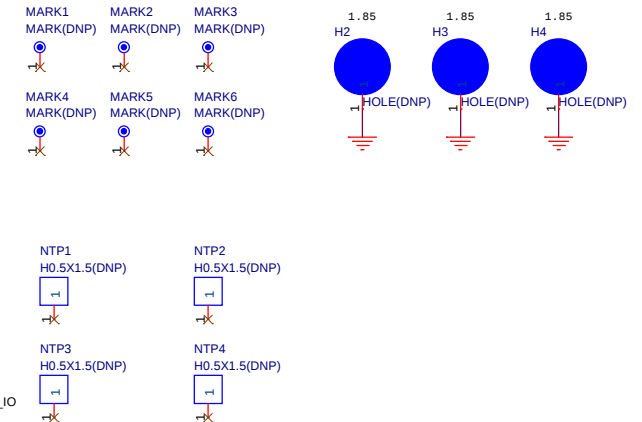
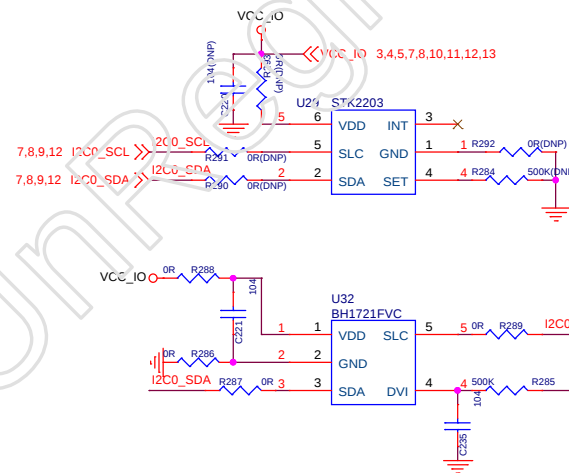
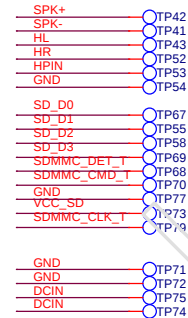
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Title Camera/G_Sensor/Key			
Size Custom	Document Number MR71_V1		Rev V1
Date:	Wednesday, March 06, 2013	Sheet	12 of 14



KEY



VOL+=0V, 用 100R
VOL-=0.81V, 用 3.8



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Size B	Document Number MR71 V1		Rev V1
Date:	Wednesday, March 06, 2013	Sheet	14 of 14

PMP5870C dissassembly SOP

- 1、Preparing a screwdriver and teardown chip.



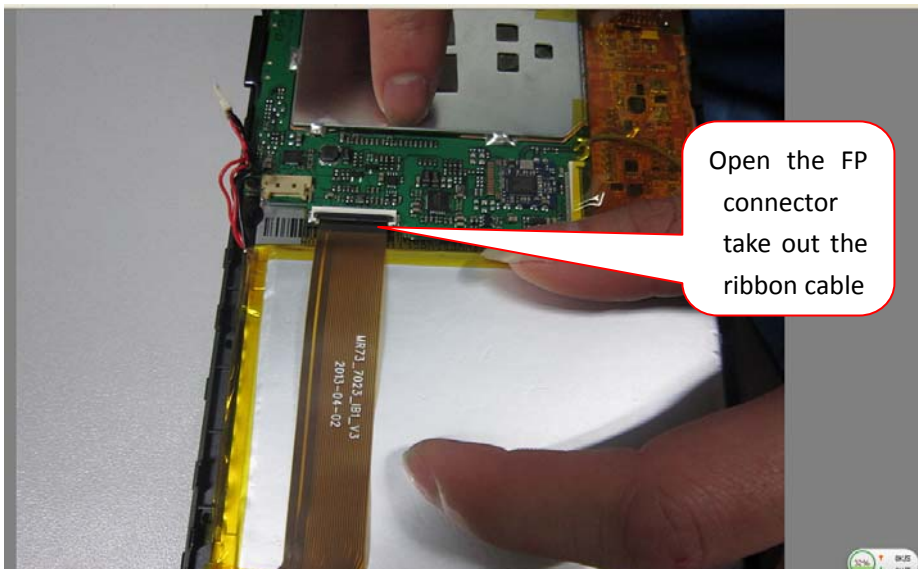
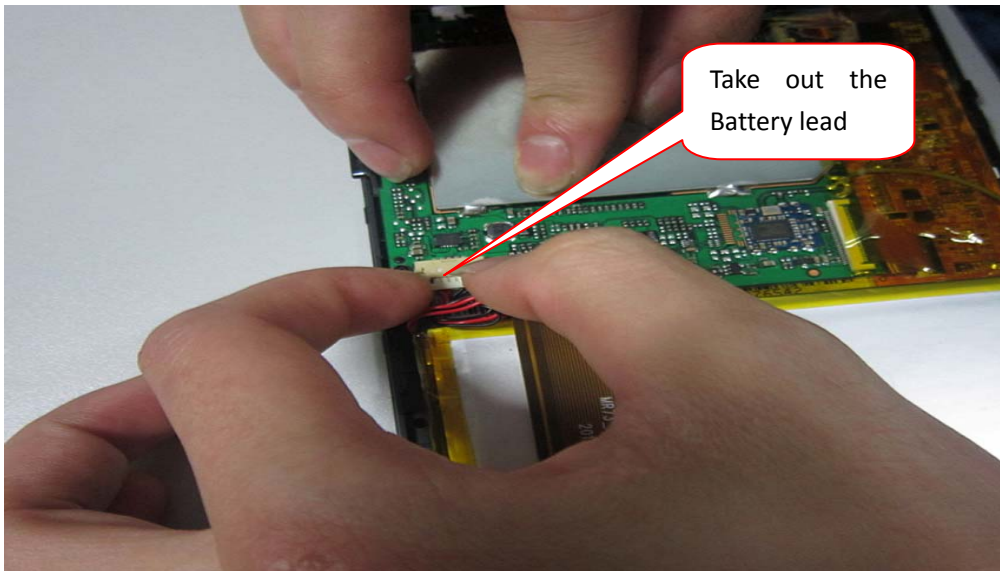
- 2、Using the teardown chip to disassembly the case. (first along the four angle of case,then along the four side to open slowly.)



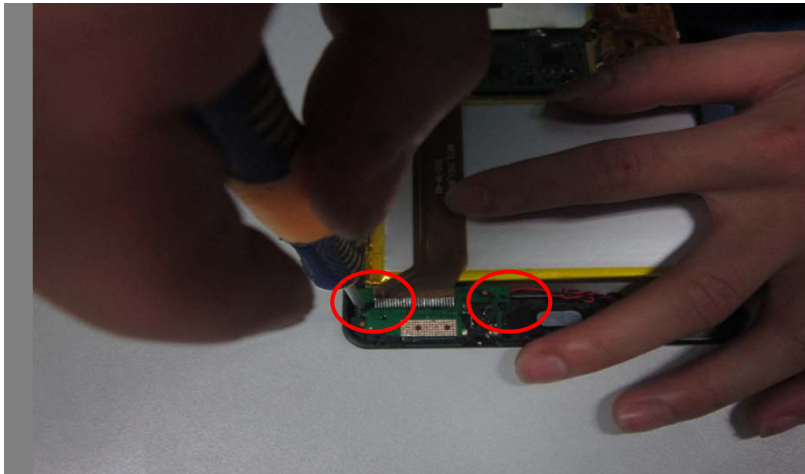
- 3、See below photo after take apart the front and back case.



4、Fetch the battery lead and ribbon cable.



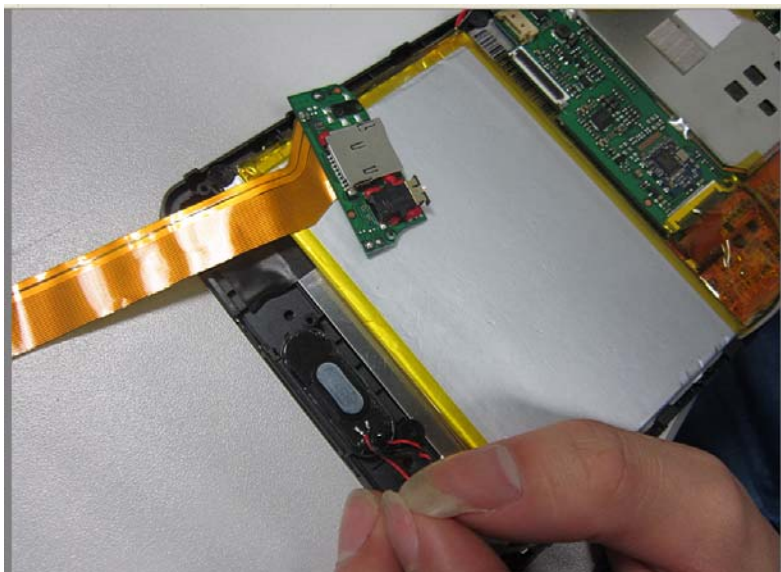
5、 Using the screwdriver to take out the two screw on subboard.



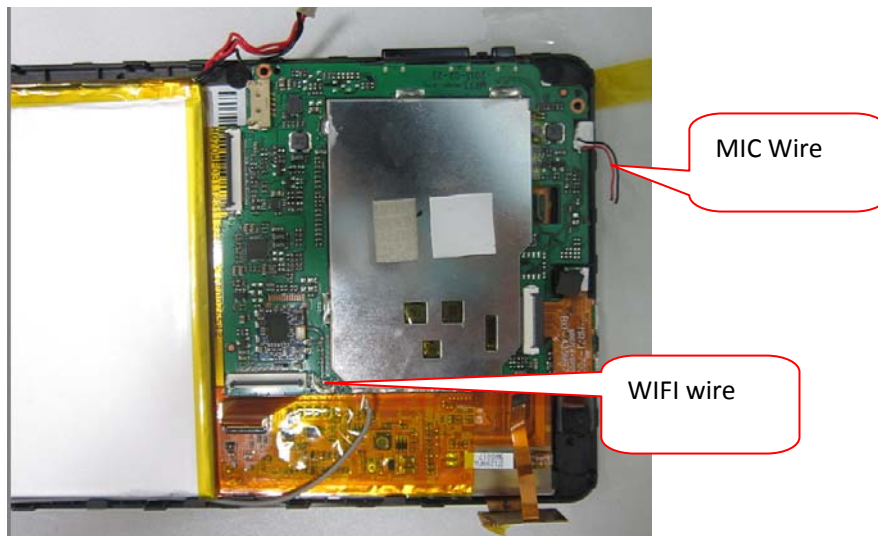
6、 Taking out the subboard.



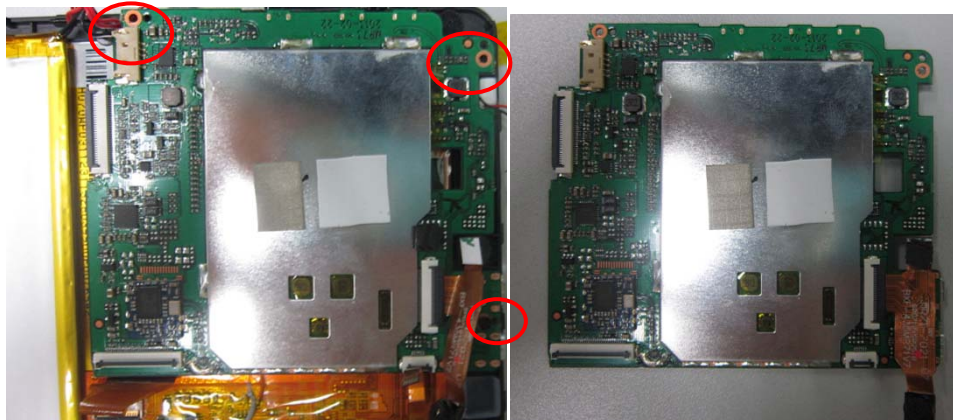
7、 Using the welding set to welding the speak wire.



8、 Using the welding set to welding the MIC &WIFI wire.



9、 Using the screwdriver to take out the screws and motherboard.



10、 Pls see below component photos after disassembly



